

ShenZhen, China

Chenghao/Oem

ROHS ISO9001 CE

7-15 working days

300Kpcs/month

12864 COG Lcd

T/T

CH130-2864KSWLG22X VER

All the products are packed in right way to keep it safe. For small sizes of products we use tray + carton, For bigger sizes we use foam slot + carton. we also design packages according to customers' requirements

16pin 128 X 64 Monochrome LCD Display 12864 COG LCD Graphic **Modules**

Basic Information

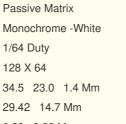
- Place of Origin:
- Brand Name:
- Certification:
- Model Number:
- Minimum Order Quantity: 100 pcs
- Price:
- Packaging Details:
- Delivery Time:
- Payment Terms:
- Supply Ability:





Product Specification

- Product Name:
- Display Mode:
- Display Color:
- Drive Duty:
- Number Of Pixels:
- Panel Size:
- Active Area:
- Pixel Pitch:
- Highlight:



0.23 0.23 Mm

16pin Monochrome LCD Display, 128 x 64 Monochrome LCD Display, Passive Matrix 12864 COG LCD



More Images



Product Description

12864 Monochrome LCD Display 16pin 1.3 inch 128*64 LCD COG Graphic Modules

1. Basic Specifications

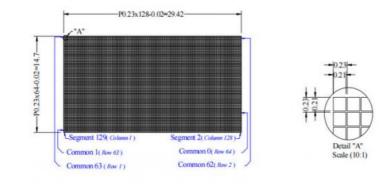
- **1.1 Display Specifications**
- Display Mode: Passive Matrix
 Display Color: Monochrome (White)
- 3) Drive Duty: 1/64 Duty

1.2 Mechanical Specifications

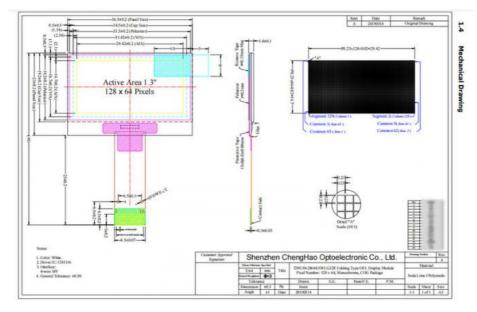
- 1.2 Mechanical Specifications
 1) Outline Drawing: According to the annexed outline drawing
 2) Number of Pixels: 128 64
 3) Panel Size: 34.5 23.0 1.4 (mm)
 4) Active Area: 29.42 14.7 (mm)
 5) Pixel Pitch: 0.23 0.23(mm)
 6) Pixel Size: 0.21 0.21(mm)
 7) Weight 2.18 (c)

- 7) Weight: 2.18 (g)

1.3 Active Area / Memory Mapping & Pixel Construction



1.4 Mechanical Drawing



2. Absolute Maximum Ratings

Parameter	Symbol	Min	Max	Unit	Notes
Supply Voltage for Logic	Vdd	-0.3	4	V	1, 2
Supply Voltage for Display	Vcc	0	14	V	1, 2
Supply Voltage for DC/DC	VBAT	0.3	5	V	1, 2
Operating Temperature	Тор	-40	85	°C	
Storage Temperature	Тята	-40	85		3
Life Time (120 cd/m2)		10,000	-	hour	4

Life Time (80 cd/m ₂)	30,000	-	hour	4
Life Time (60 cd/m ₂)	50,000	-	hour	4

Note 1: All the above voltages are on the basis of "V ss = 0V".

Note 2: When this module is used beyond the above absolute maximum ratings, permanent breakage of the module may occur. Also, for normal operations, it is desirable to use this module under the

conditions according to Section 3. "Optics & Electrical Characteristics". If this module is used beyond these conditions, malfunctioning of the module can occur and the reliability of the module

may deteriorate.

Note 3: The defined temperature ranges do not include the polarizer. The maximum withstood temperature of the polarizer should be 80 C.

Note 4: $V_{CC} = 12.0V$, $T_a = 25^{\circ}C$, 50% Checkerboard.

Software configuration follows Section 4.4 Initialization.

End of lifetime is specified as 50% of initial brightness reached. The average operating lifetime at room temperature is estimated by the accelerated operation at high temperature conditions.

3.. Optics & Electrical Characteristics

3.1 Optics Characteristics

Characteristics	Symbol	Conditions	Min	Тур	Max	Unit
Brightness (Vcc Supplied Externally)	Lbr	Note 5	100	-	-	cd/m2
Brightness (VCC Generated by Internal DC/DC)	Lbr	Note 6	90	110	130	cd/m2
C.I.E. (White)	(x) (y)	C.I.E. 1931	0.25 0.27	0.29 0.31	0.33 0.35	
Dark Room Contrast	CR			2000:1	1	
Viewing Angle		1		Free		degree

* Optical measurement taken at VDD = 2.8V, VCC = 12V & 9V. Software configuration follows Section 4.4 Initialization.

3.2 DC Characteristics

Characteristics	Symbol	Conditions	Min	Тур	Max	Unit
Supply Voltage for Logic	Vdd		1.65	2.8	3.3	V
Supply Voltage for Display (Supplied Externally)	Vcc	Note 5 (Internal DC/DC Disable)	-	12	-	v
Supply Voltage for DC/DC	VBAT	Internal DC/DC Enable	3.5	-	4.2	V
Supply Voltage for Display (Generated by Internal DC/DC)	vcc	Note 6 (Internal DC/DC Enable)	6.4	-	9	v
High Level Input	Vін	Ιουτ = 100μΑ, 3.3MHz	z 0.8 Vdd	-	Vdd	V
Low Level Input	V⊫	Ιουτ = 100μΑ, 3.3MHz	0	-	0.2 Vdd	V
High Level Output	Vон	Ιουτ = 100μΑ, 3.3MHz	0.9xVdd	-	Vdd	V
Low Level Output	Vol	Ιουτ = 100μΑ, 3.3MHz	0	-	0.1 Vdd	V
Operating Current for VDD	loo		-	180	300	μA
Operating Current for Vcc (Vcc Supplied Externally)	lcc	Note 7	-	17	28	mA
Operating Current for VBAT (VCC Generated by Internal DC/DC)	IBAT	Note 8	-	45	50	mA
Note 8	IDD, SLEEP		-	1	5	μA
Sleep Mode Current for Vcc	ICC, SLEEP		-	2	10	μA

Note 5 & 6: Brightness (Lbr) and Supply Voltage for Display (VCC) are subject to the change of the panel characteristics and the customer's request.

Note 7: VDD = 2.8V, VCC = 12V, IREF=910K 100% Display Area Turn on.

Note 8: VDD = 2.8V, VCC = 9V, IREF=560K 100% Display Area Turn on.

* Software configuration follows Section 4.4 Initialization.

FAQ

Q1: Do you accept customization displays and touch screens?

A: Sure, you can customization the FPC, Backlight and the touch screen.

Q2: What type of interface is your display screen?

A: Small sized of displays generally support SPI,MCU,RGB,MIPI.Medium sized displays generally support

LVDS,MIPI,EDP.Different specifications use different interfaces.

Q3: Do you used capacitive touch screen or resistive touch screen.

A: We have capacitive touch screen and resistive touch screen .

Q4: What is your sample policy?

A: If there is stock, you can sample at any time, if there is no stock, it will take some time, and then wait for the materials to come back to sample. But the customer needs to pay the sample fee and express fee.

Q5: How long is your lead time for mass production?

A: It takes about 20 - 45 working days for mass production, depending on the model and order quantity.

